

FIG. 1

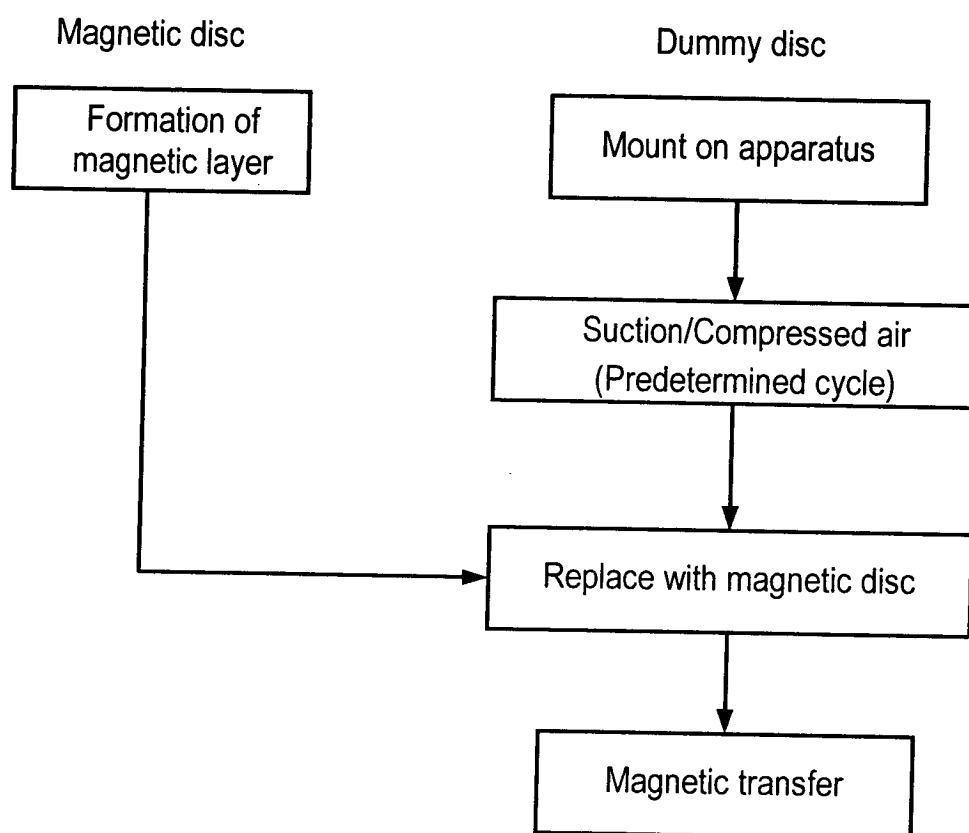


FIG. 2

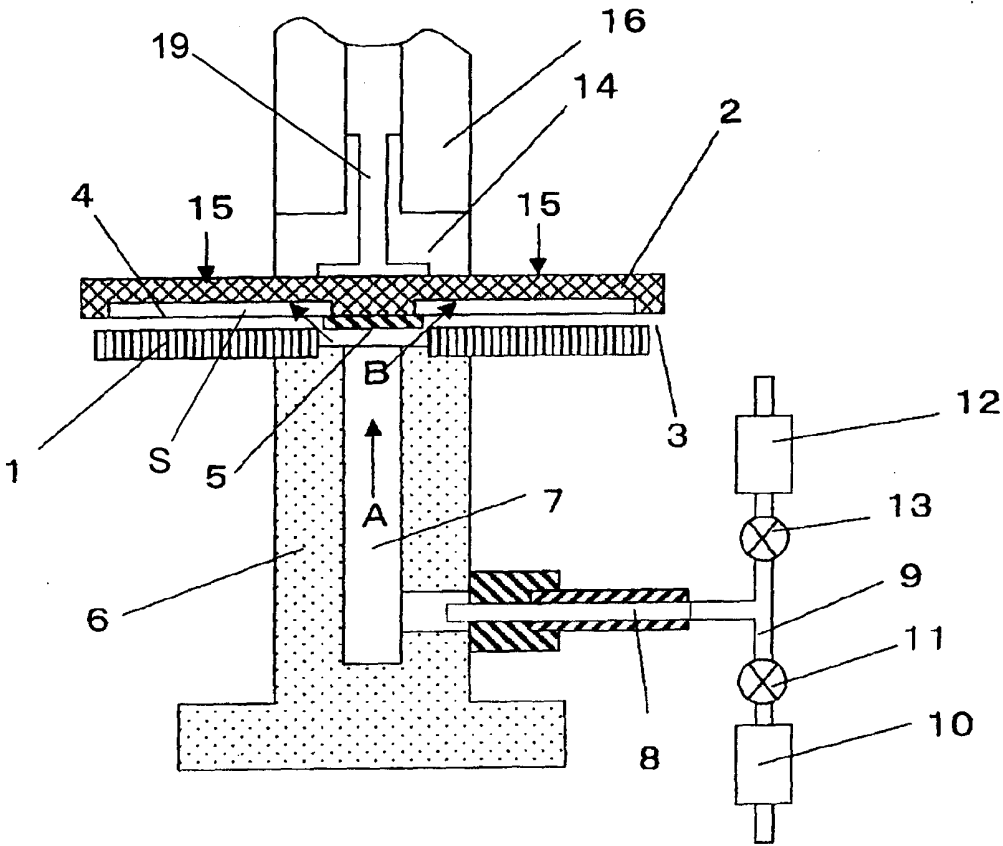


FIG. 3

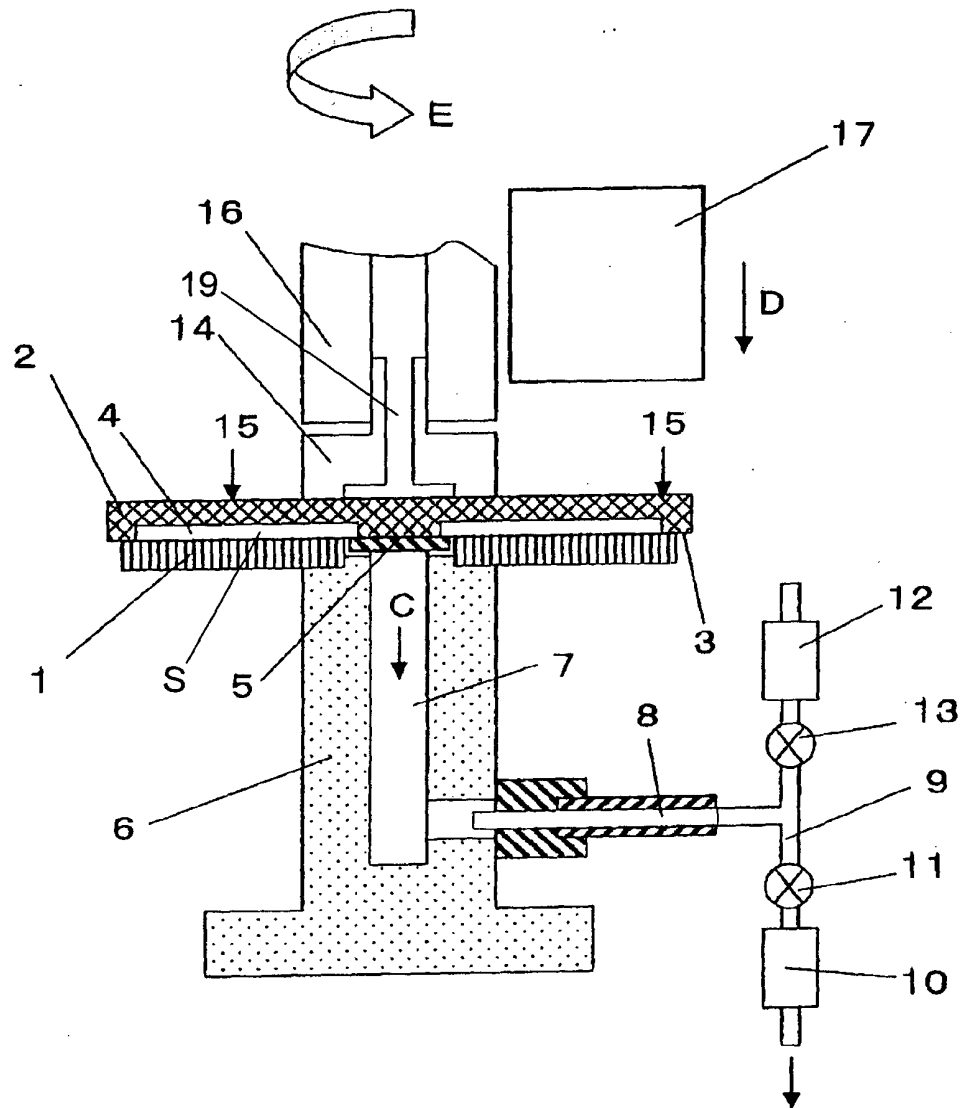


FIG. 4

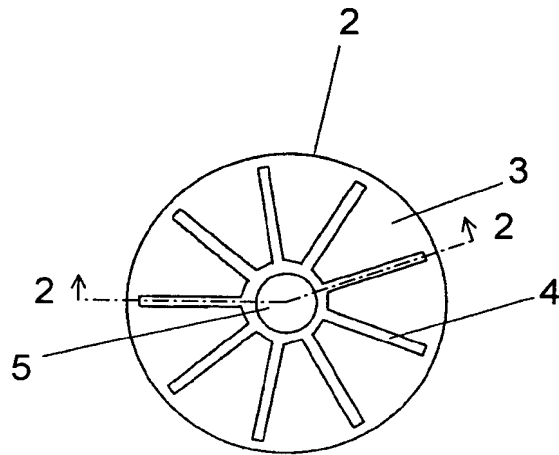


FIG. 5

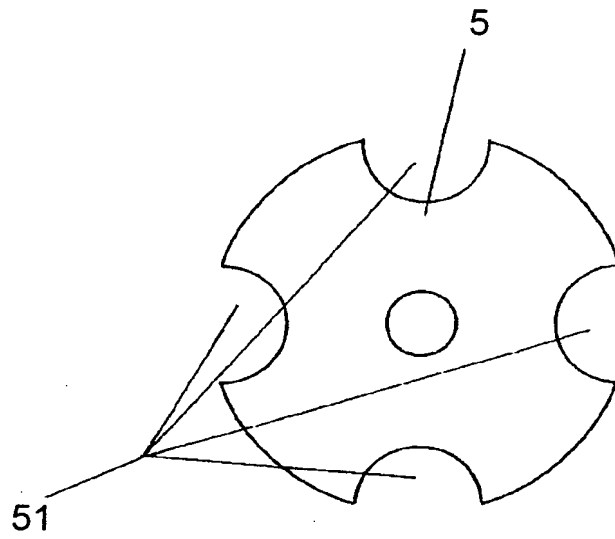


FIG. 6

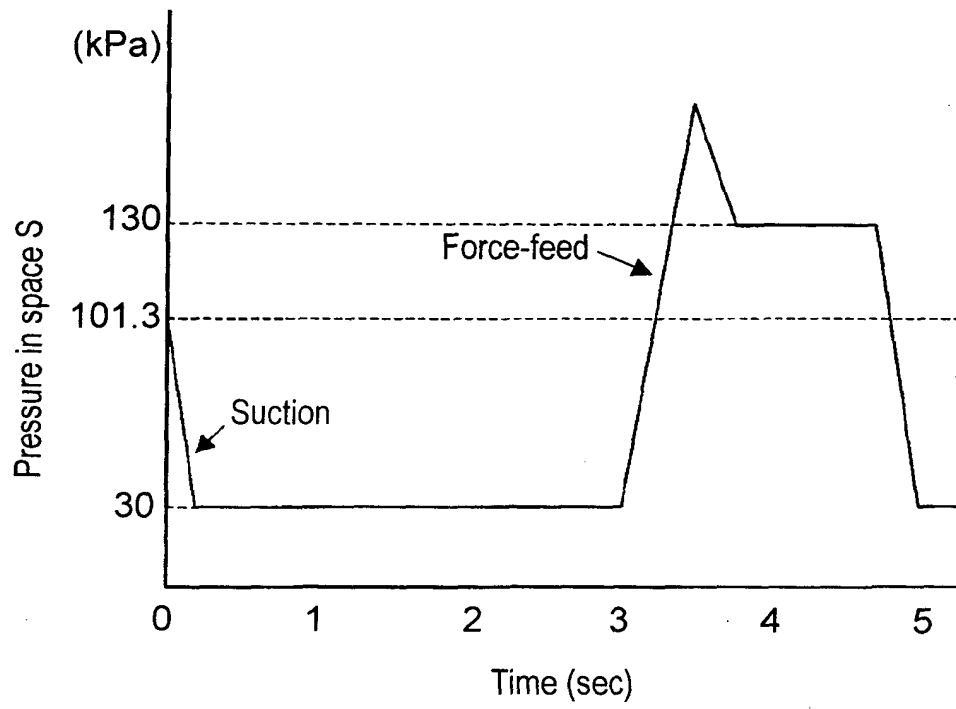


FIG. 7

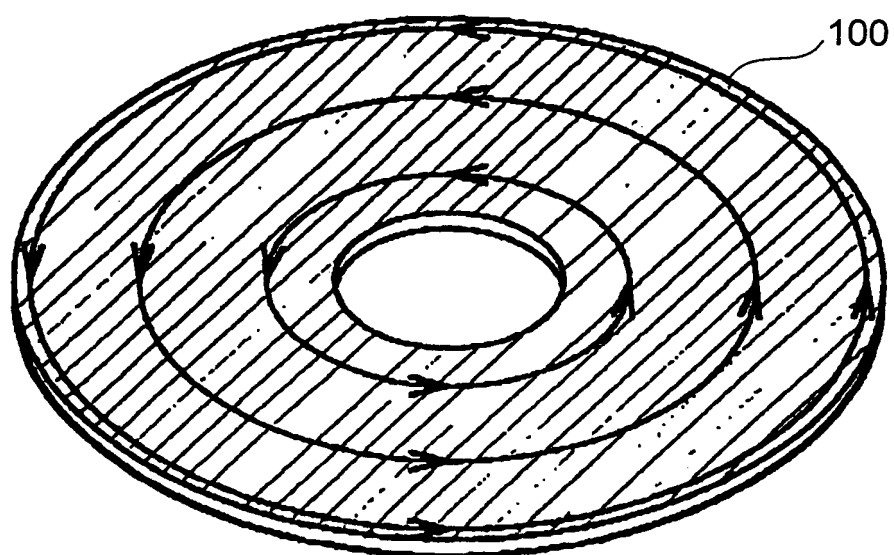


FIG. 8

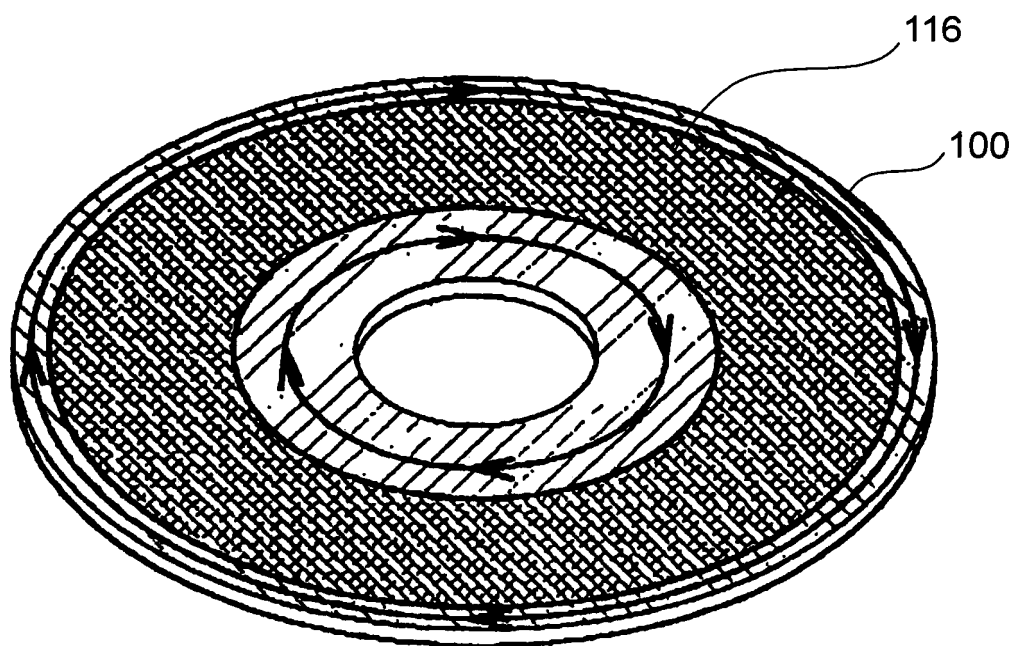
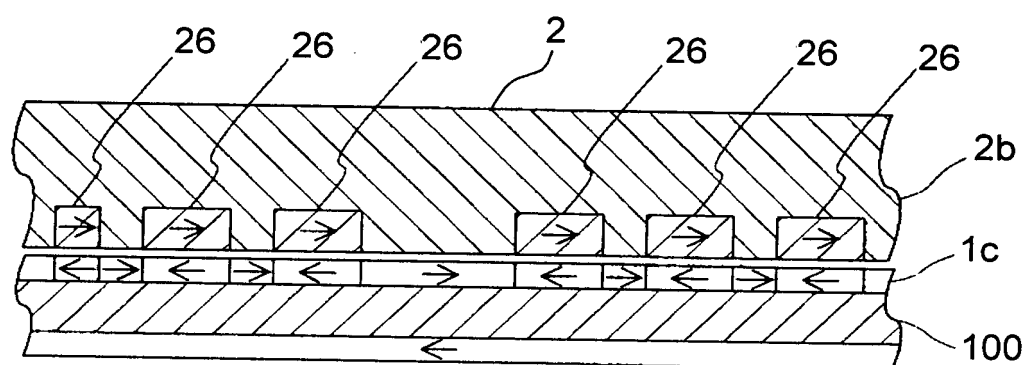


FIG. 9



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FIG. 10

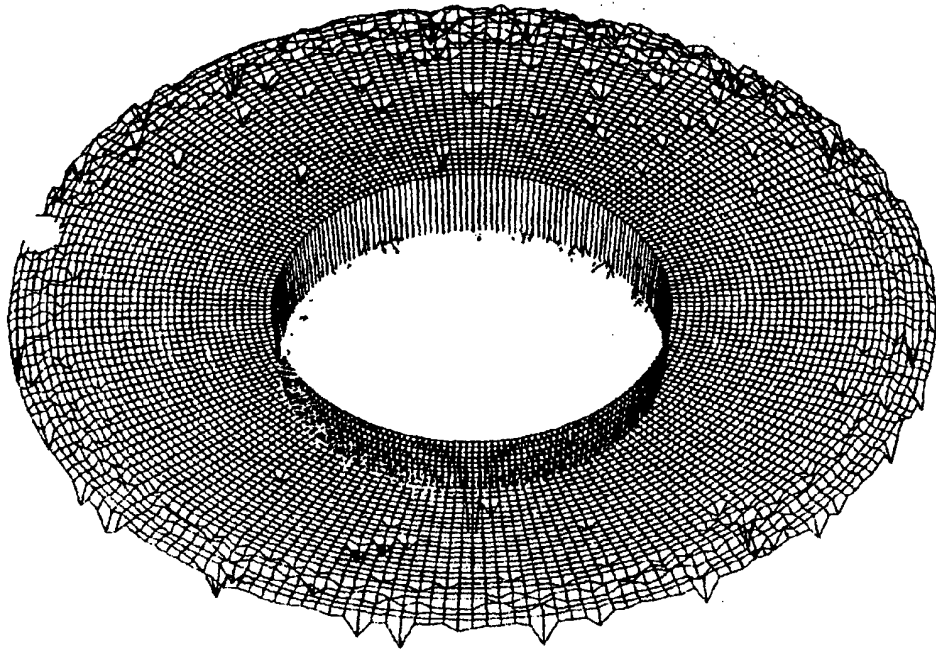


FIG. 11 PRIOR ART

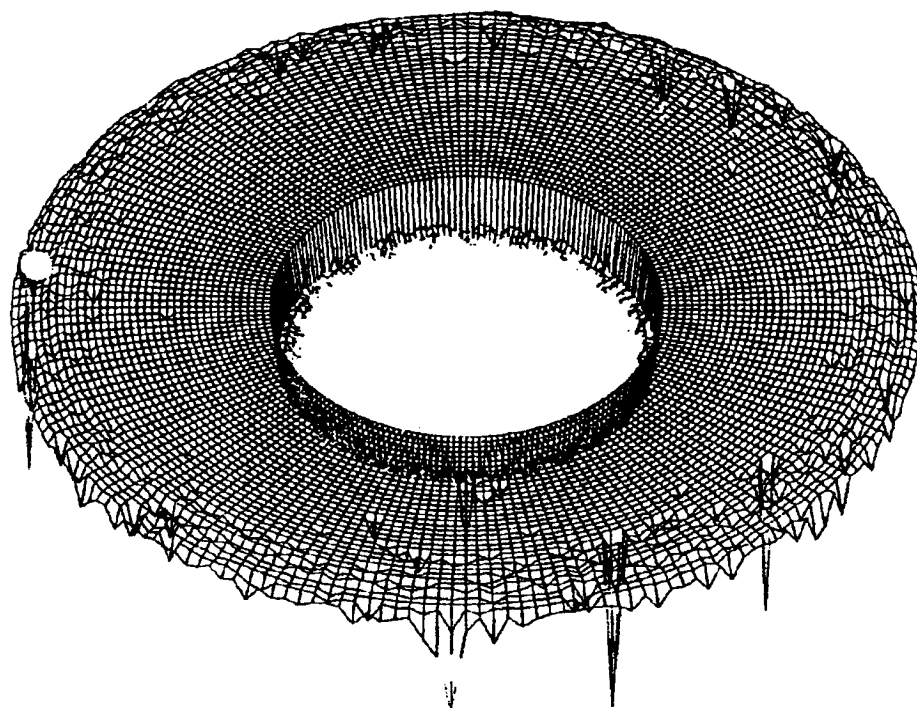


FIG. 12

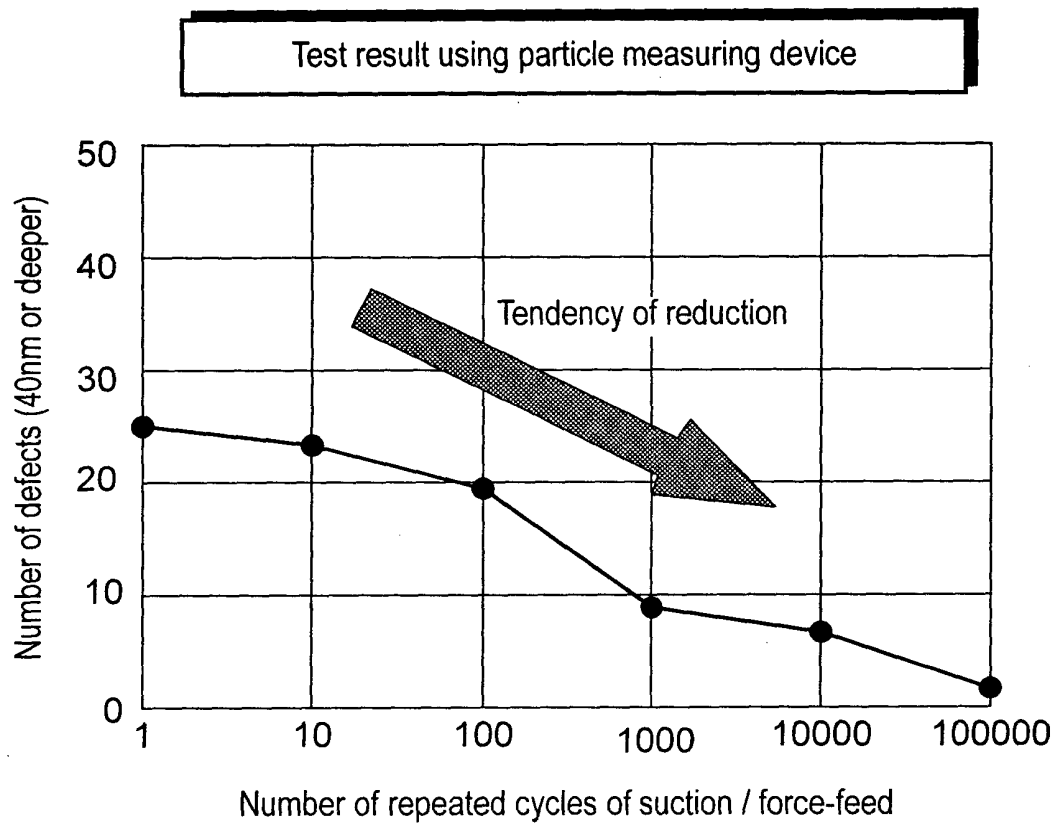
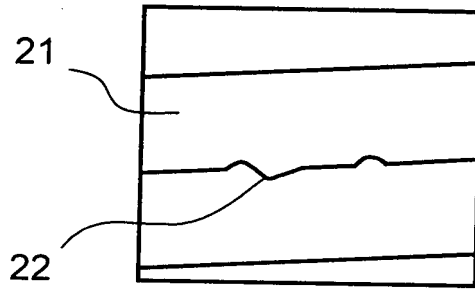
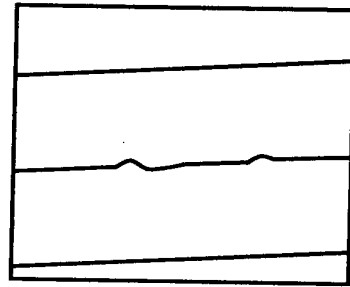


FIG. 13A



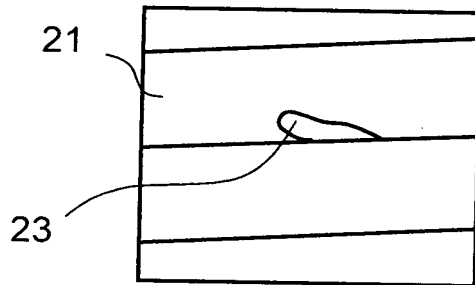
Initial state

FIG. 13B



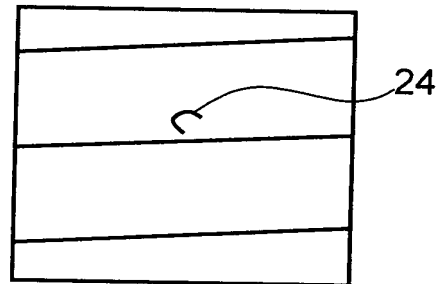
After 100,000cycles of suction
/ force-feed

FIG. 13C



Initial state

FIG. 13D



After 100,000cycles of suction
/ force-feed

FIG. 14

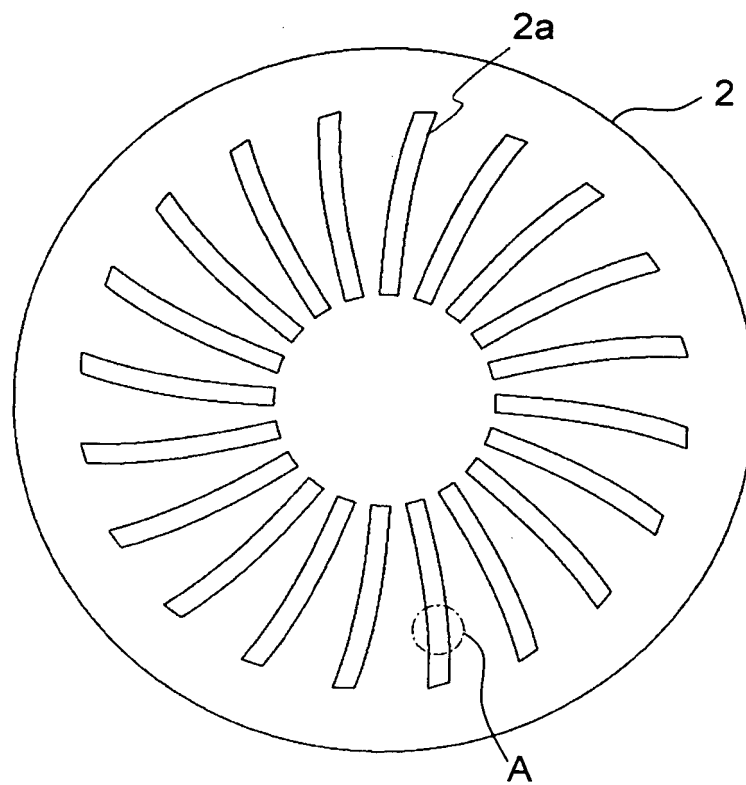


FIG. 15

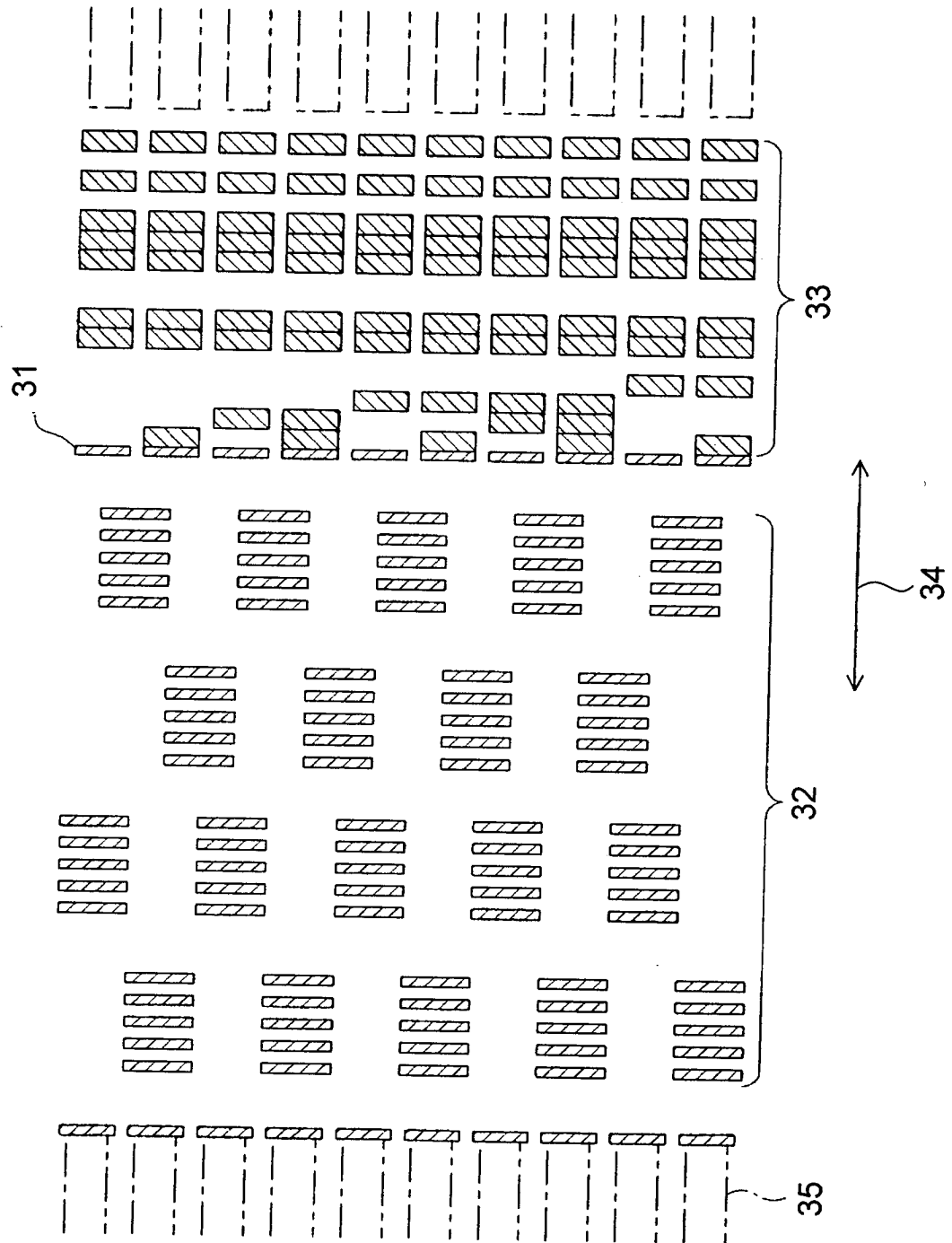


FIG. 16

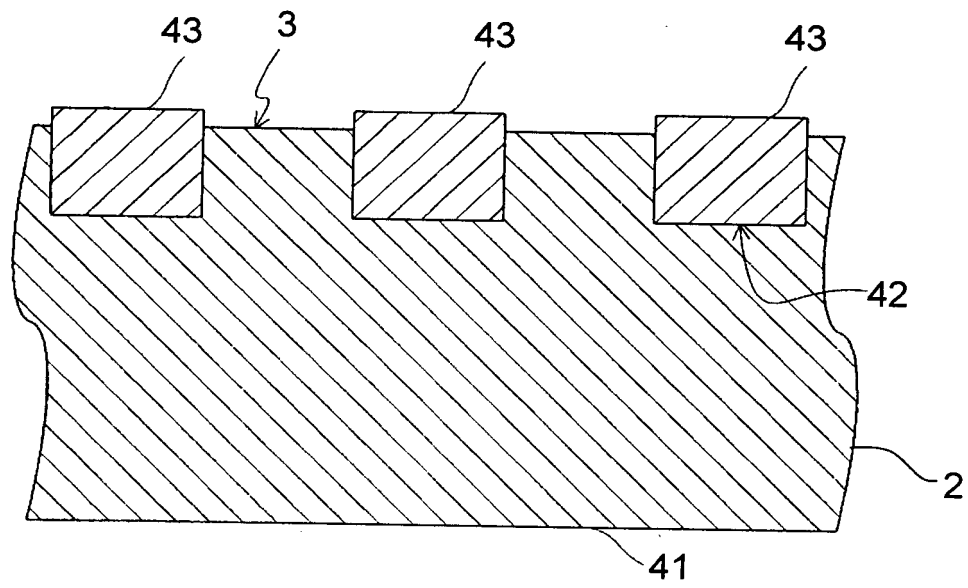


FIG. 17

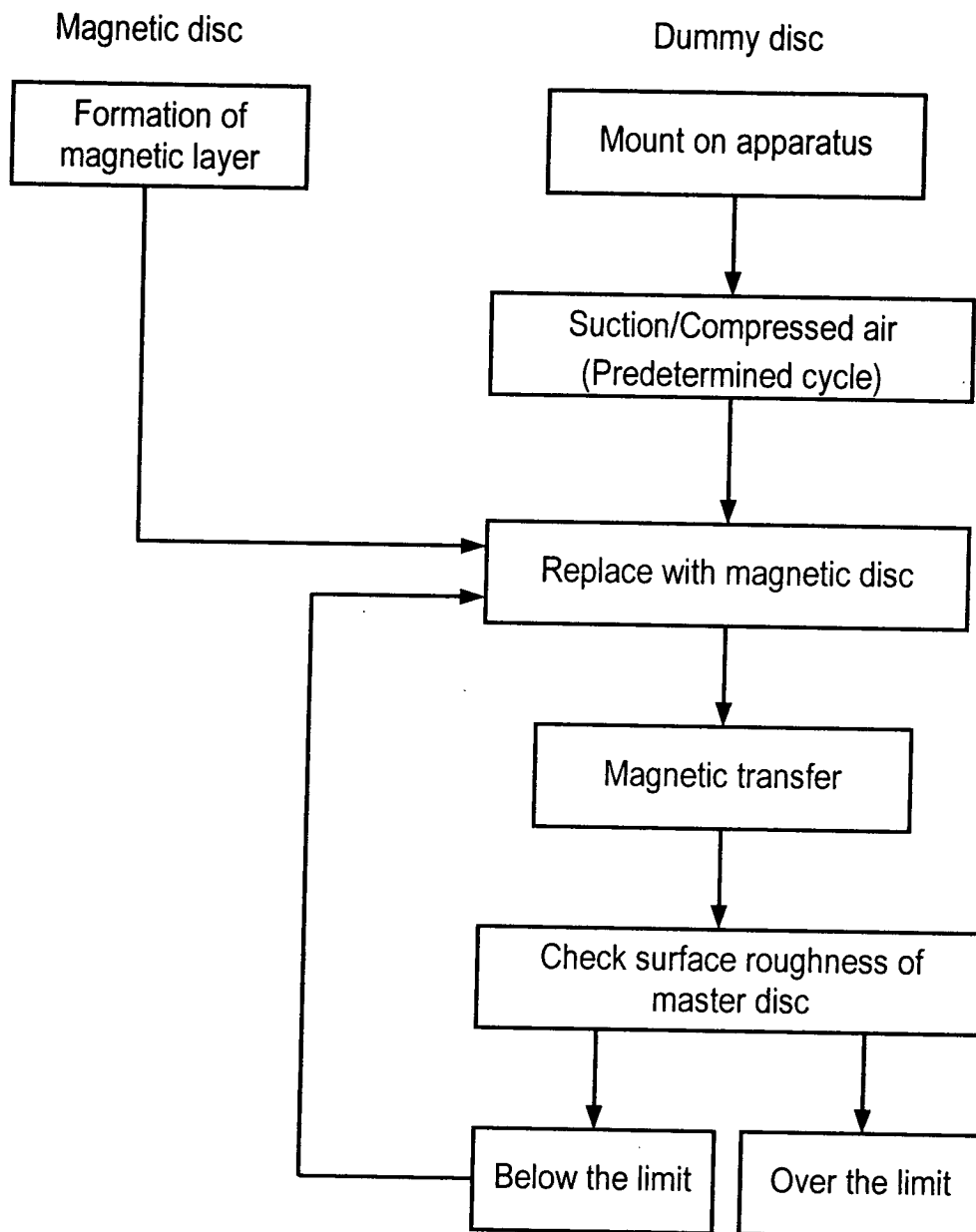


FIG. 18

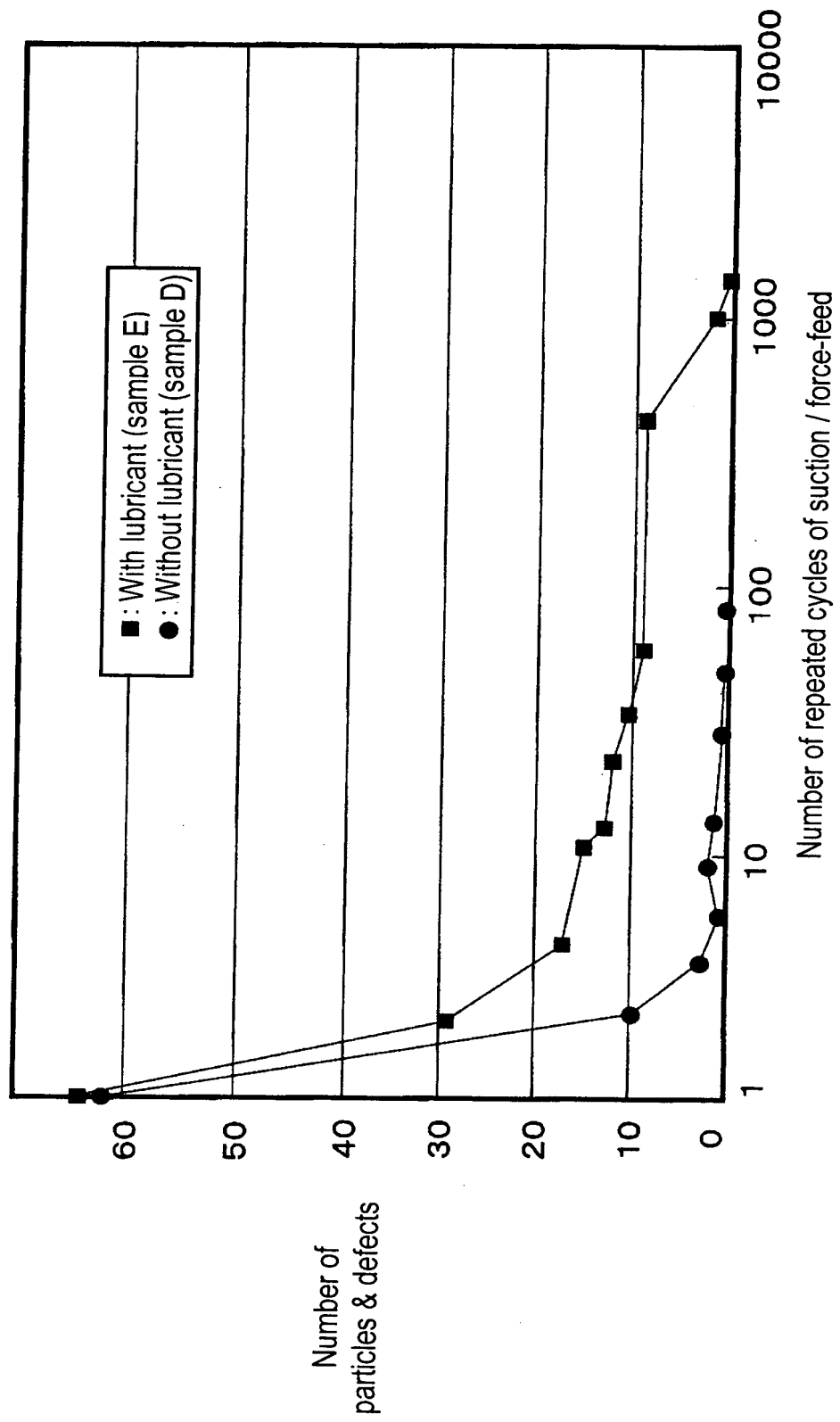


FIG. 19A

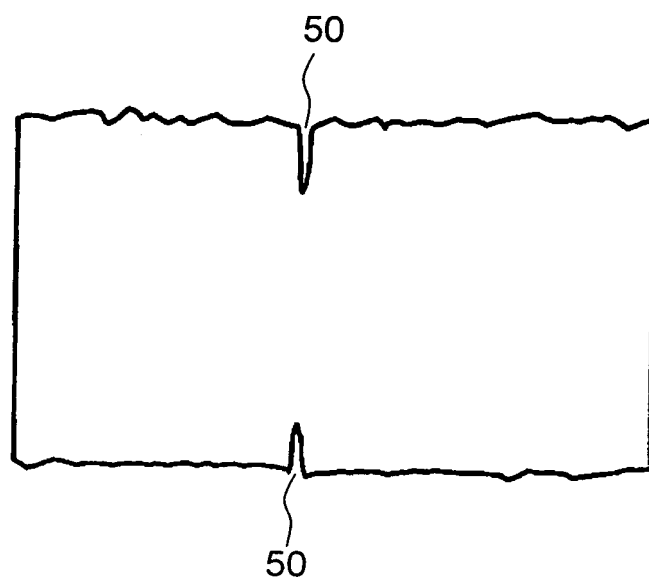


FIG. 19B

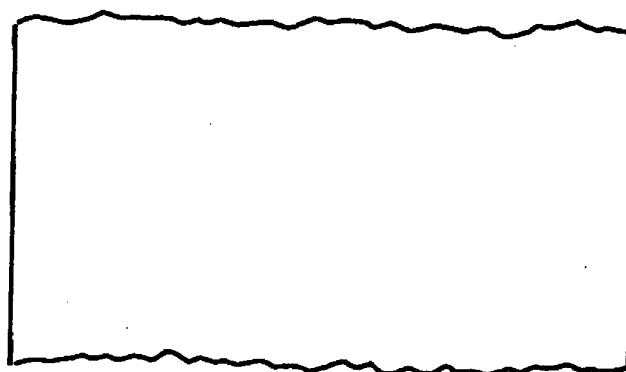


FIG. 20A

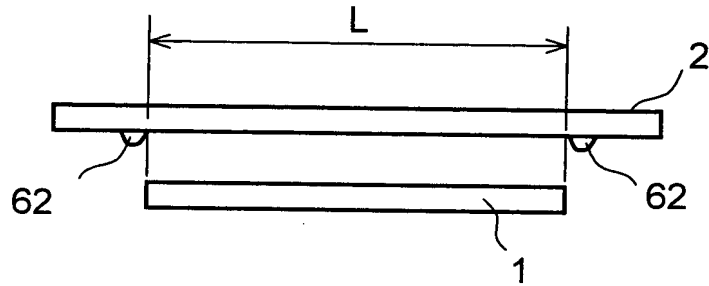


FIG. 20B

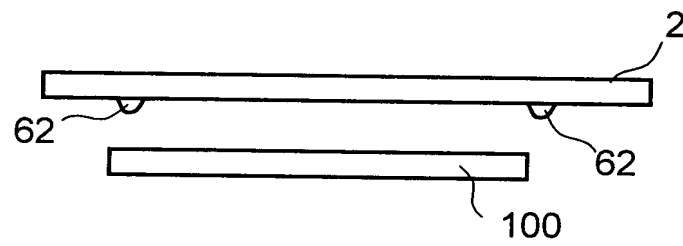


FIG. 21

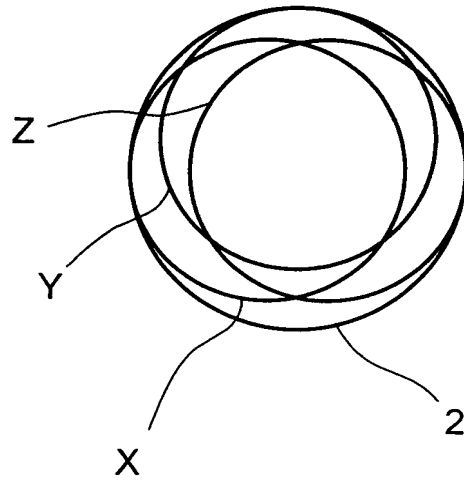


FIG. 22

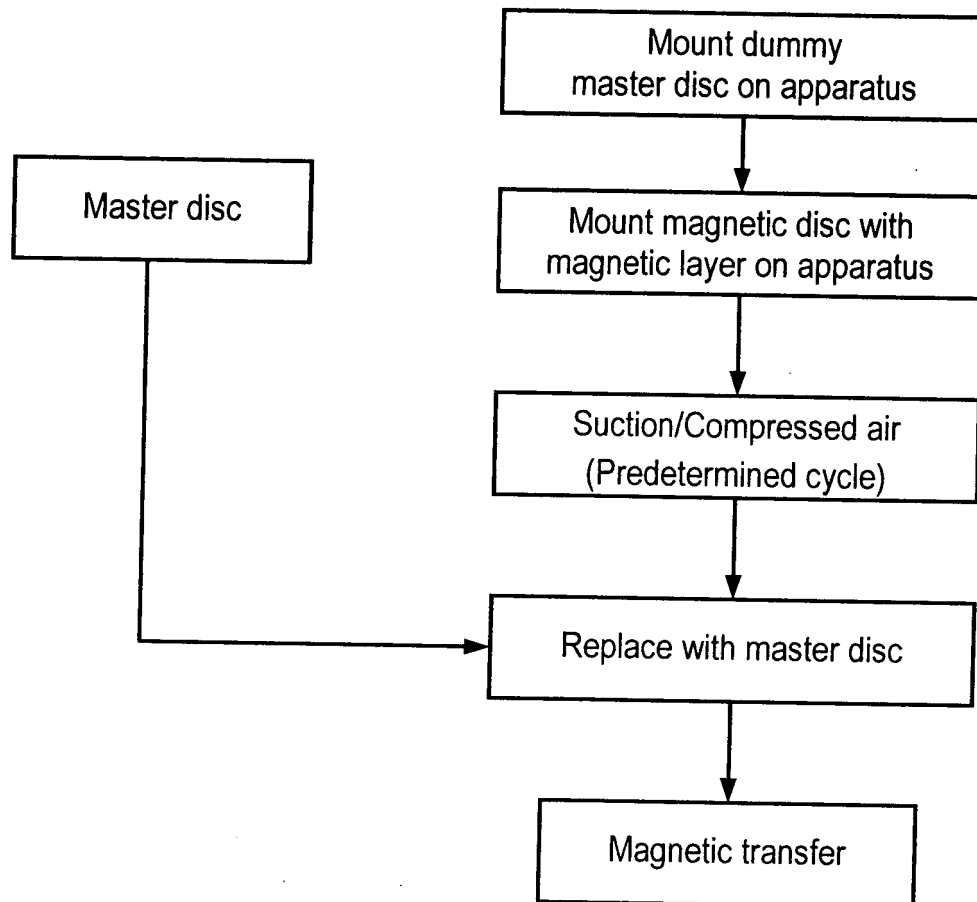


FIG. 23

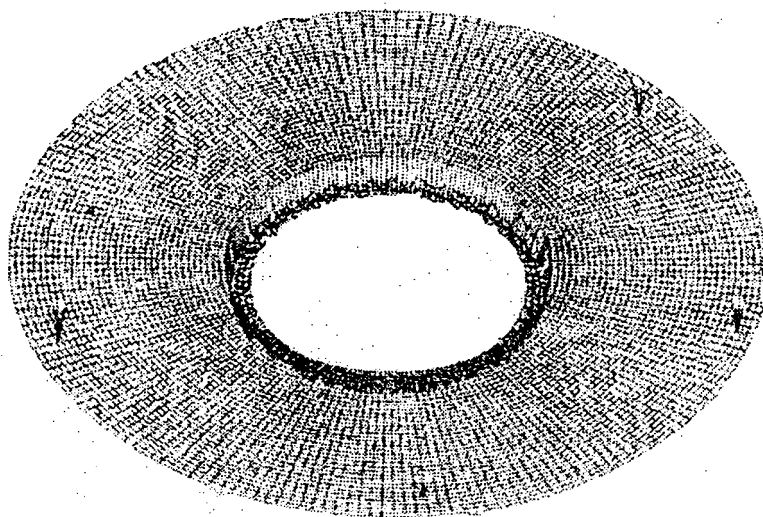
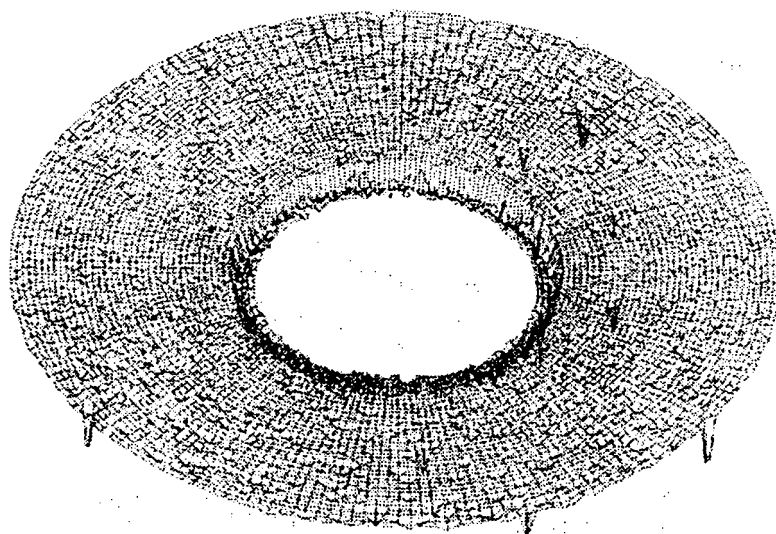


FIG. 24



Reference Numerals

1. Dummy disc
2. Master disc for magnetic transfer
- 2a. Signal area
- 5 3. Contact surface of master disc for magnetic transfer
4. Groove
5. Boss
6. Support base
7. Vent hole
- 10 8. Passage
9. Gas outlet
10. Suction pump
11. Exhaust valve
12. Feed pump
- 15 13. Feed valve
14. Retaining arm
15. Atmospheric pressure
16. Guide member
17. Magnet
- 20 19. Through hole
21. Track pattern
22. Burr
23. Bump
24. Tip of bump

- 26. Magnetic part
- 31. Clock signal
- 32. Tracking servo signal
- 33. Address data signal
- 5 34. Track length direction
- 41. Substrate
- 42. Recess
- 43. Thin ferromagnetic film
- 50. Reduced portion of signal output
- 10 51. Cut opening
- 62. Foreign particle
- 100. Magnetic disc
- 116. Data signal area
- A, B. Direction of forced-fed air
- 15 C. Direction of exhaust air
- D. Moving direction of magnet
- E. Rotating direction of magnet
- S. Space
- X, Y, Z. Contacting position of dummy disc
- 20